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IMAGERY
ANALYSIS
DIVISION

PIR

PHOTOGRAPHIC INTELLIGENCE REPORT

CHINESE POWER PLANTS

SZECHWAN PROVINCE

Declass Review by NIMA/DOD

CIA/PIR 75020

DATE JULY 1966

COPY 39

PAGES 16

GROUP 1
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Approved For Release 2003/03/04 : CIA-RDP78T05161A001200010005-1

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CHINESE POWER PLANTS

SZECHWAN PROVINCE

- (A) Chang-shou Hydro Power Plant (Hsia-tung)
- (B) Chang-shou Hydro Power Plant (Shih-tzu-tan)
- (C) Cheng-tu Heat and Thermal Power Plant
- (D) Chung-ching Thermal Power Plant 507
- (E) Kuan-hsien Hydro Power Plant (Yu-tsui)

REQUIREMENT

C-RR5-83,218

CIA/IAD PROJECT

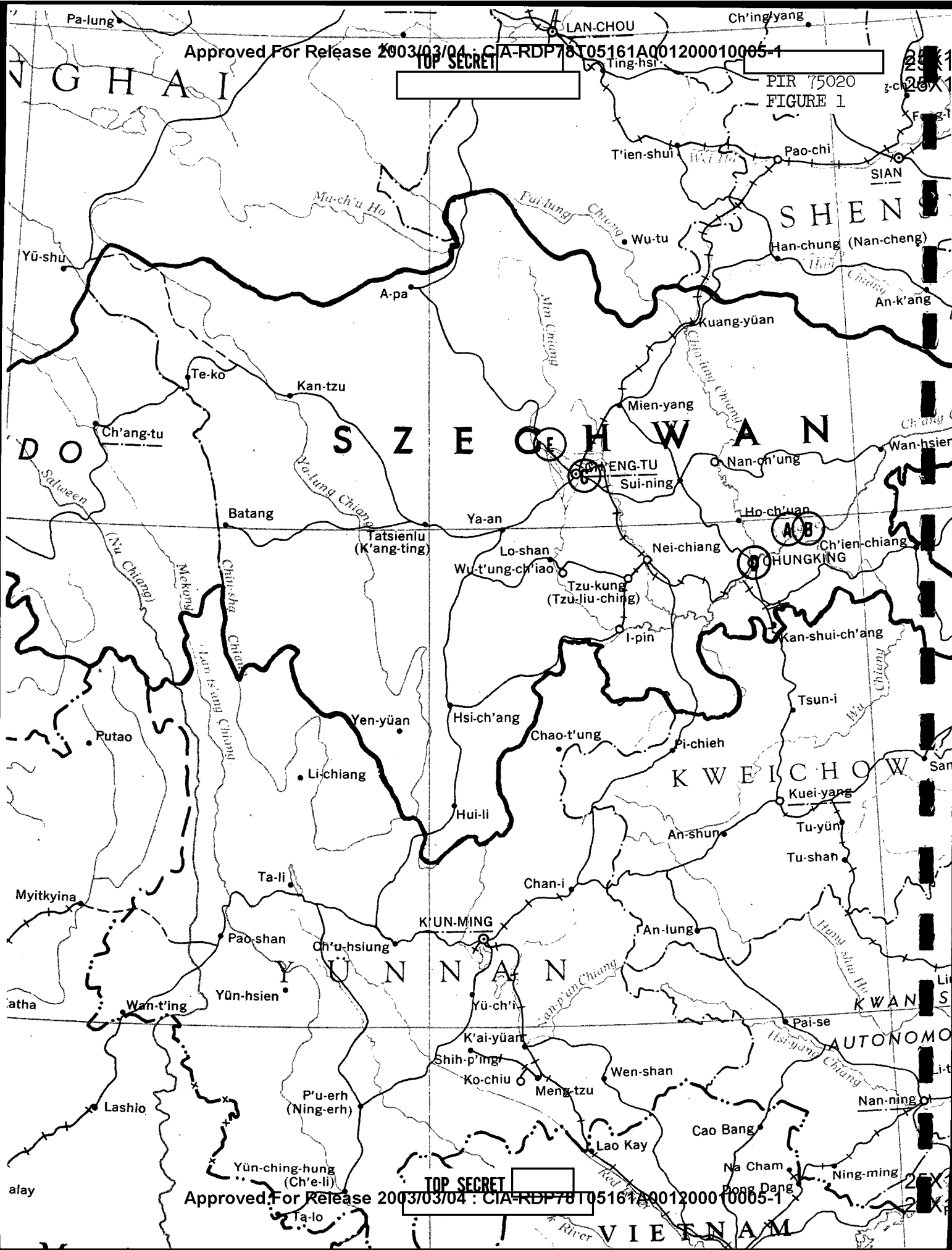
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FIGURE 1



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A

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CHANG-SHOU HYDRO POWER PLANT (HSIA-TUNG)

25X1

NPIC NUMBER - 95

The Chang-shou Hydro Power Plant (Hsia-tung) is located approximately 2 nm east of Chang-shou on the Lung Ho (River) at 29 49 17N - 107 07 10E and consists of a concrete dam, spillway, and substation with two probable transformers.

The generator hall appears large enough for at least two turbo-generators. The inability to discern water-intake gates or tail-water outlets on available photography precluded a more definitive assessment. Powerhouse turbulence was observed on one of the two missions which provided usable coverage of the facility [redacted] (see the accompanying Figure). Heavy discharge was noted over the dam [redacted] but no turbulence could be discerned in the area of the powerhouse.

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No changes were noted during the period [redacted]

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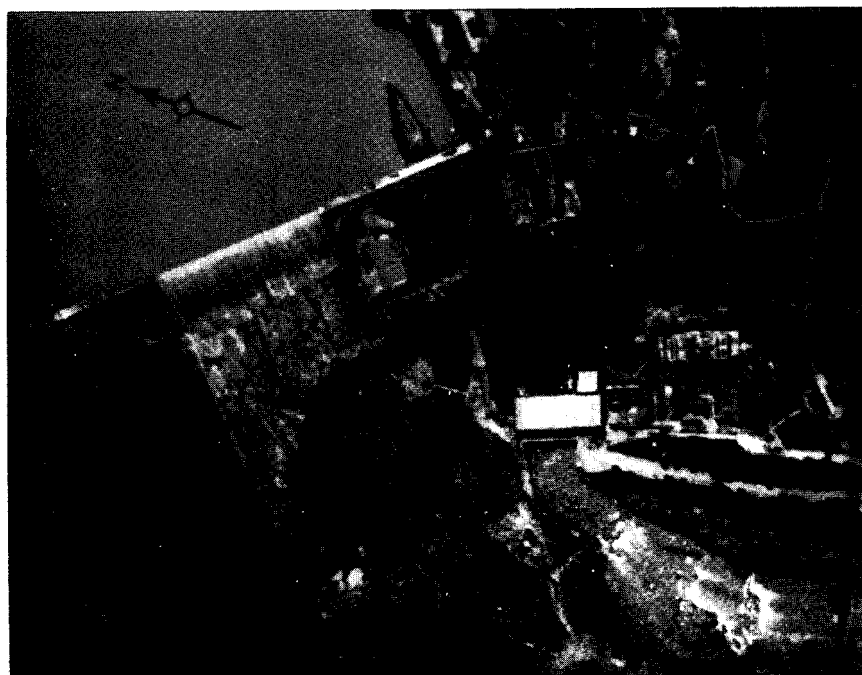
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FIGURE 2

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CHANG-SHOU HYDRO POWER PLANT (HSIA-TUNG)

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CHANG-SHOU HYDRO POWER PLANT (SHIH-TZU-TAN)

NPIC NUMBER - 96

Chang-shou Hydro Power Plant (Shih-tzu-tan) is of the separated type and is located 9.5 nm northeast of Chang-shou at 29 53 12N - 107 14 12E. The facility consists of an earthen dam, concrete spillway, surge tank, and a substation with two, possibly three transformers. Four small cylindrical objects are visible south of the substation. These tank-like structures appear much like the small POL storage tanks associated with thermal power plants.

The powerhouse is located 0.9 nm southwest of the dam and has four large tailwater outlets, indicating that the building is designed for four turbo-generator units. No generator cable leads could be discerned on the available coverage. Turbulence was noted from probably two areas [redacted]. The only other mission providing usable coverage [redacted] revealed possible turbulence from one or two areas.

No change occurred during the period [redacted]

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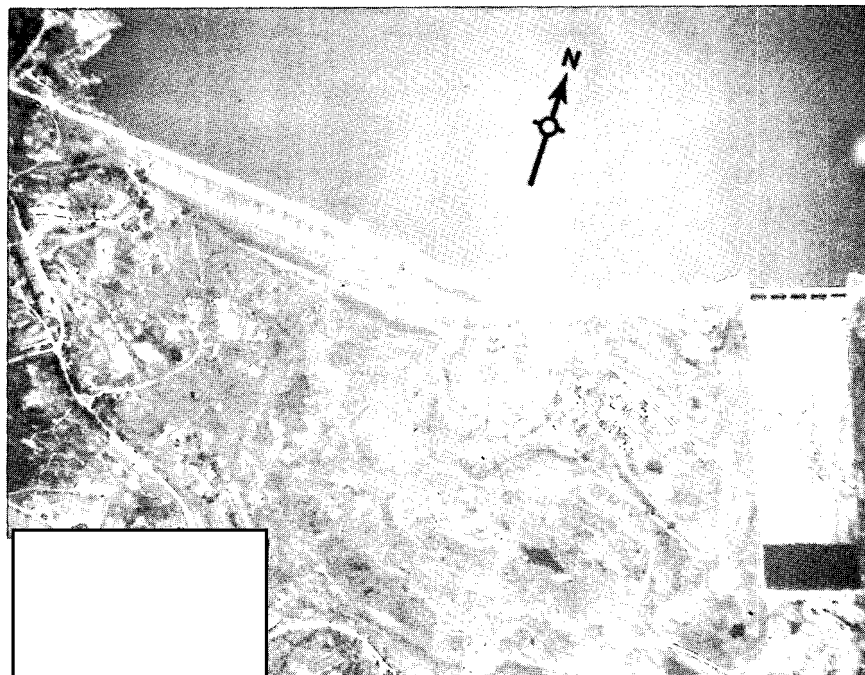
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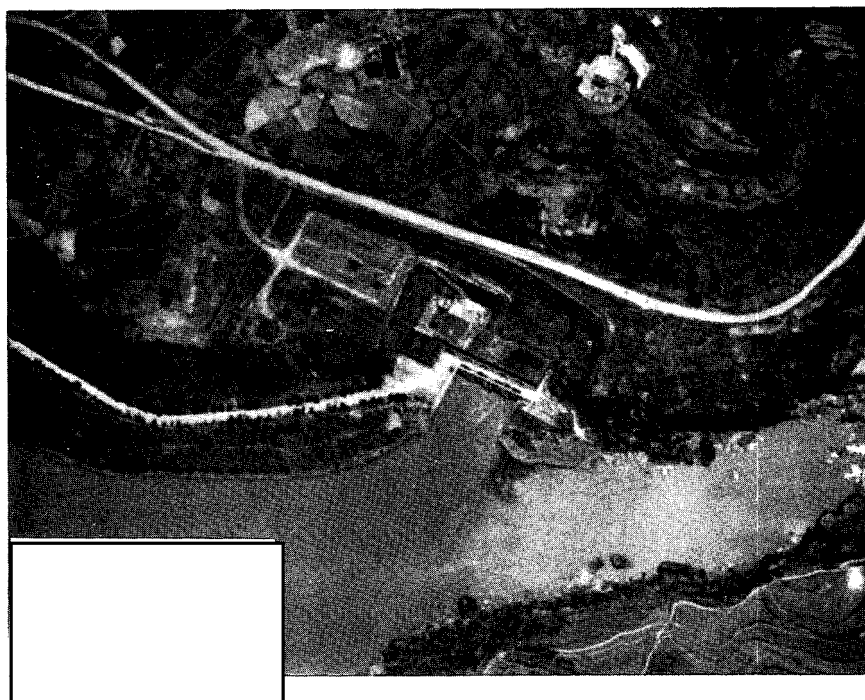
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FIGURE 3

CHANG-SHOU HYDRO POWER PLANT (SHIH-TZU-TAN)



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CHENG-TU HEAT AND THERMAL POWER PLANT

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NPIC NUMBER - 29-D

25X1

Cheng-tu Heat and Thermal Power Plant is located in the eastern sector of Cheng-tu at 30 39 40N - 104 07 40E. The plant is rail-served, coal-operated and includes coal unloading, processing and conveying facilities, large substation with a control house and four visible transformers, six small oil-storage tanks, and several support/storage buildings.

The powerhouse consists of two distinct sections, a large main section of conventional design and a smaller section, probably the original powerhouse, which is located at the western end of the facility. The main boilerhouse is served by free-standing masonry stack A and has completed housing for five boiler units; however, there are only four sets of dust-catchers and four sets of flues, indicating that four operable boiler units are installed. The small boilerhouse is served by a single roof-stack (B) and probably has a single small boiler. Four sets of generator cable leads can be discerned between the generator hall and substation, three sets connect with the control house, and the fourth with a transformer.

Housing for the addition of a boiler-generator unit was added during the period [REDACTED]

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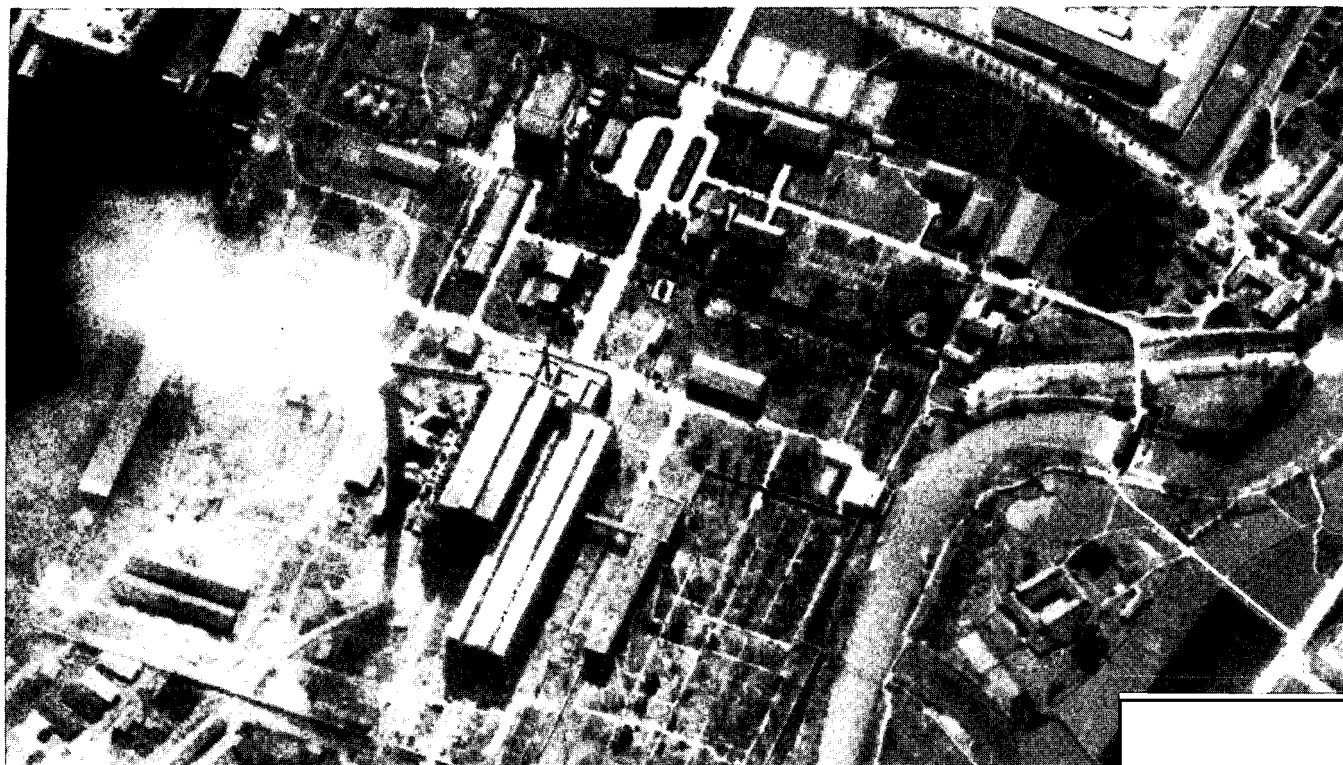
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FIGURE 4

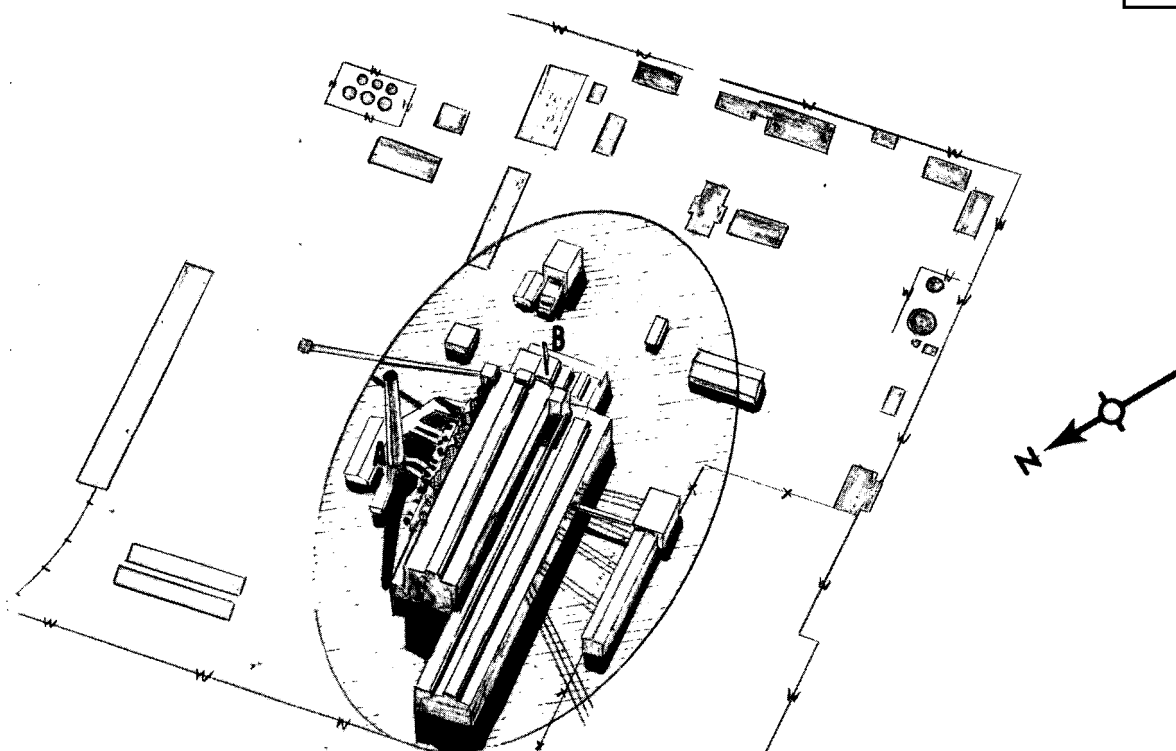
CHENG-TU HEAT AND THERMAL POWER PLANT

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FIGURE 5

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CHENG-TU HEAT AND THERMAL POWER PLANT



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CHENG-TU HEAT AND THERMAL POWER PLANT

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CONSTRUCTION ACTIVITY	LEVEL OF PRODUCTION
None apparent. The eastern end of the powerhouse is open.	Moderate smoke from stack A.
None	Moderate smoke from stack A.
No apparent change from [redacted]	Clouds preclude analysis.
25X1	
None	Moderate smoke from stack A.
Walls of generator hall are being extended probably for one additional generator unit.	Heavy smoke from stack A.
Generator hall expansion appears complete. Scarring for construction of a fifth boiler unit is evident.	Moderate smoke from stack A.

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CHENG-TU HEAT AND THERMAL POWER PLANT

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PHOTO DATA	CONSTRUCTION ACTIVITY	LEVEL OF PRODUCTION
	The fifth unit may be roofed, but heavy smoke from stack A precludes a definite assessment.	Heavy smoke from stack A.
	Fifth unit is roofed, no dust-catcher is evident.	Moderate smoke from stack A.
	None	Moderate smoke from stack A.
	None apparent.	Heavy smoke from stack A.
	None	Heavy smoke from stack A. Possible light smoke from stack B.

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CHUNG-CHING THERMAL POWER PLANT 507

NPIC NUMBER - IO-0

Chung-ching Thermal Power Plant 507 consists of two powerhouses located in the southern sector of Chung-ching at 29 29 12N - 106 32 08E. The complex is rail-served, coal-operated and includes two substations with a total of at least seven transformers, a control house, two switching buildings, five water collection or settling basins, seven small oil-storage tanks, and coal handling and processing facilities.

The northernmost powerhouse is serviced by a single free-standing stack and has three dust-catcher units and three sets of generator cable leads, indicating three operable boiler-generator units. Two of the power leads connect with transformers; the third set ties in with the substation switching equipment. Uprights for a fourth boiler-generator unit are in place, but no evidence of impending expansion is evident.

The second powerhouse, equipped with seven metal roof-stacks, has no visible dust-catchers, and appears to be complete. Haze and the continual drift of smoke from the northern plant obscured most of the substation and generator hall, masking much of the equipment; however, at least two or possibly as many as seven generator cable leads and five to seven transformers could be discerned.

No significant construction has occurred during the period

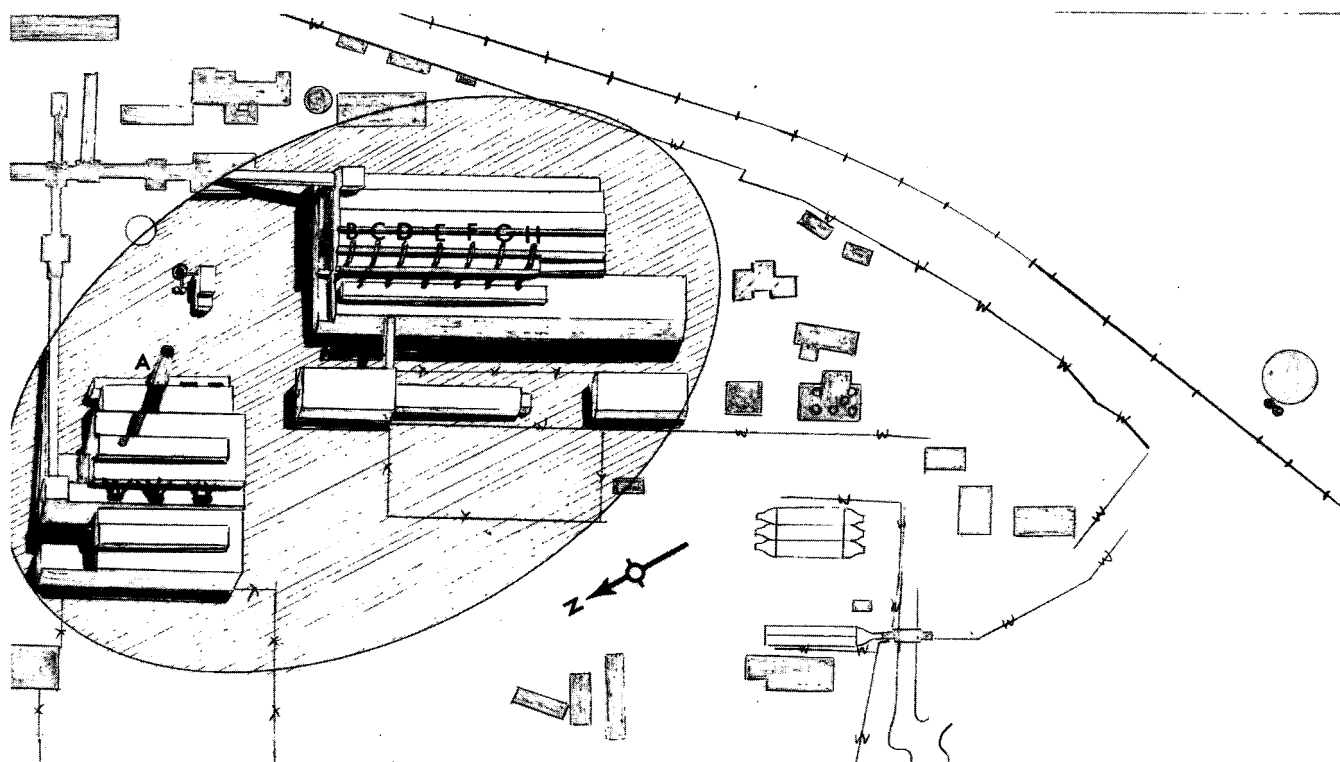
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FIGURE 6

CHUNG-CHING THERMAL POWER PLANT 507



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CHUNG-CHING THERMAL POWER PLANT 507

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	CONSTRUCTION ACTIVITY	LEVEL OF PRODUCTION
	None	Heavy smoke from stack A. Moderate smoke from stacks B, C, D, E, F, G, and H.
	Four new support/storage buildings are completed.	Moderate smoke from stacks B, C, D, E, F, and G.
	Clouds preclude analysis.	Clouds preclude analysis.
	None	Heavy smoke from stack A. Moderate smoke from stack B and possibly C or D.
	Haze and clouds preclude analysis.	Heavy smoke probably from stack B. Moderate smoke from stack A.

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KUAN-HSIEN HYDRO POWER PLANT (YU-TSUI)

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NPIC NUMBER - 71

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The Kuan-hsien Hydro Power Plant (Yu-tsui) is located on the Min-chiang (River) 0.85 nm northwest of Kuan-hsien at coordinates 31 00 20N - 103 36 10E. This plant was first observed under construction in [] and has shown no progress since that time. The facility consists of a generator hall section and concrete spillway, both in the late stages of construction. No construction has occurred on the dam, rendering the present facilities inoperable.

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The generator hall section contains six penstock water intakes and six tailwater outlets, indicating six generator units.

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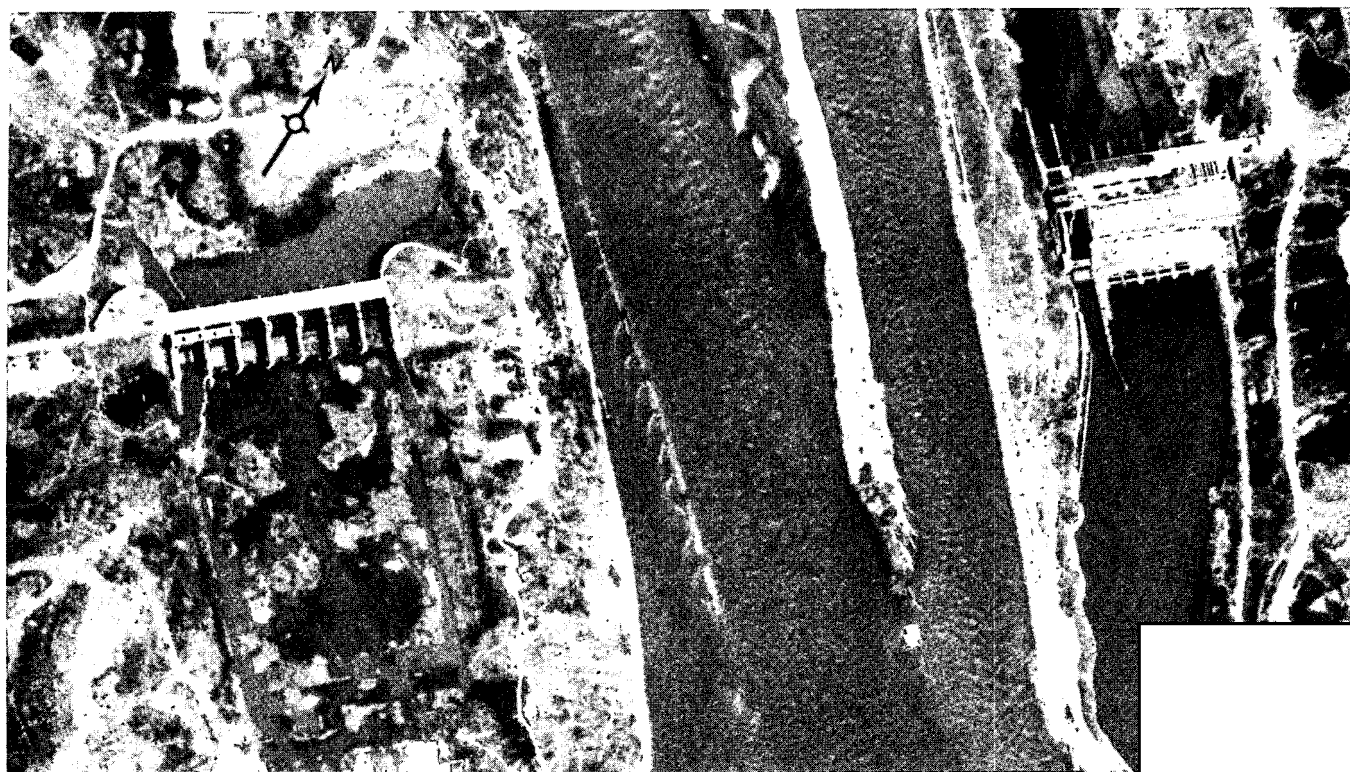
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FIGURE 7

KUAN-HSIEN HYDRO POWER PLANT (YU-TSUI)



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